Listing of Claims:

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1-11. (canceled).

12. (previously amended) A sensor for sensing position of a moveable object, comprising:

a magnet attachable to the object, the magnet having a pair of ends and a central portion, the magnet generating a slowly changing flux field near the central portion and a rapidly changing flux field at the ends;

a first magnetic flux sensor positioned about the central portion of the magnet, the first magnetic flux sensor generating an electrical signal indicative of a specific position of the movable object; and

a second magnetic flux sensor positioned about the first end of the magnet, the second magnetic flux sensor generating an electrical signal indicative of when the movable object has reached a pre-determined location.

- 13. (canceled).
- 14. (previously amended) The sensor according to claim 12 wherein, the first and second magnetic flux sensors are hall effect devices.

- 15. (original) A sensor for sensing movement of a movable object, comprising:
- a) at least one magnet attachable to the movable object, the magnet having a first end, a second end and a central portion;
- b) the first and second ends of the magnet having a first flux density that changes about the ends;
- c) the central portion of the magnet having a second flux density that changes more slowly about the central portion than about the ends of the magnet;
- d) a first magnetic flux sensor positioned about the central portion of the magnet, the first magnetic flux sensor generating a first electrical signal indicative of a specific position of the movable object; and
- e) a second magnetic flux sensor positioned about the first end of the magnet, the second magnetic flux sensor generating a second electrical signal indicative of the movable object reaching a pre-determined location.
- 16. (original) The sensor according to claim 15 wherein, the second magnetic flux sensor functions as a first switch.
- 17. (original) The sensor according to claim 15 wherein, a third magnetic flux sensor is positioned about the second end.
- 18. (original) The sensor according to claim 17 wherein, the third magnetic flux sensor functions as a second switch.

- 19. (original) The sensor according to claim 15 wherein, the first electrical signal is linear.
- 20. (original) The sensor according to claim 15 wherein, the second electrical signal is step shaped.

21-23. (canceled).